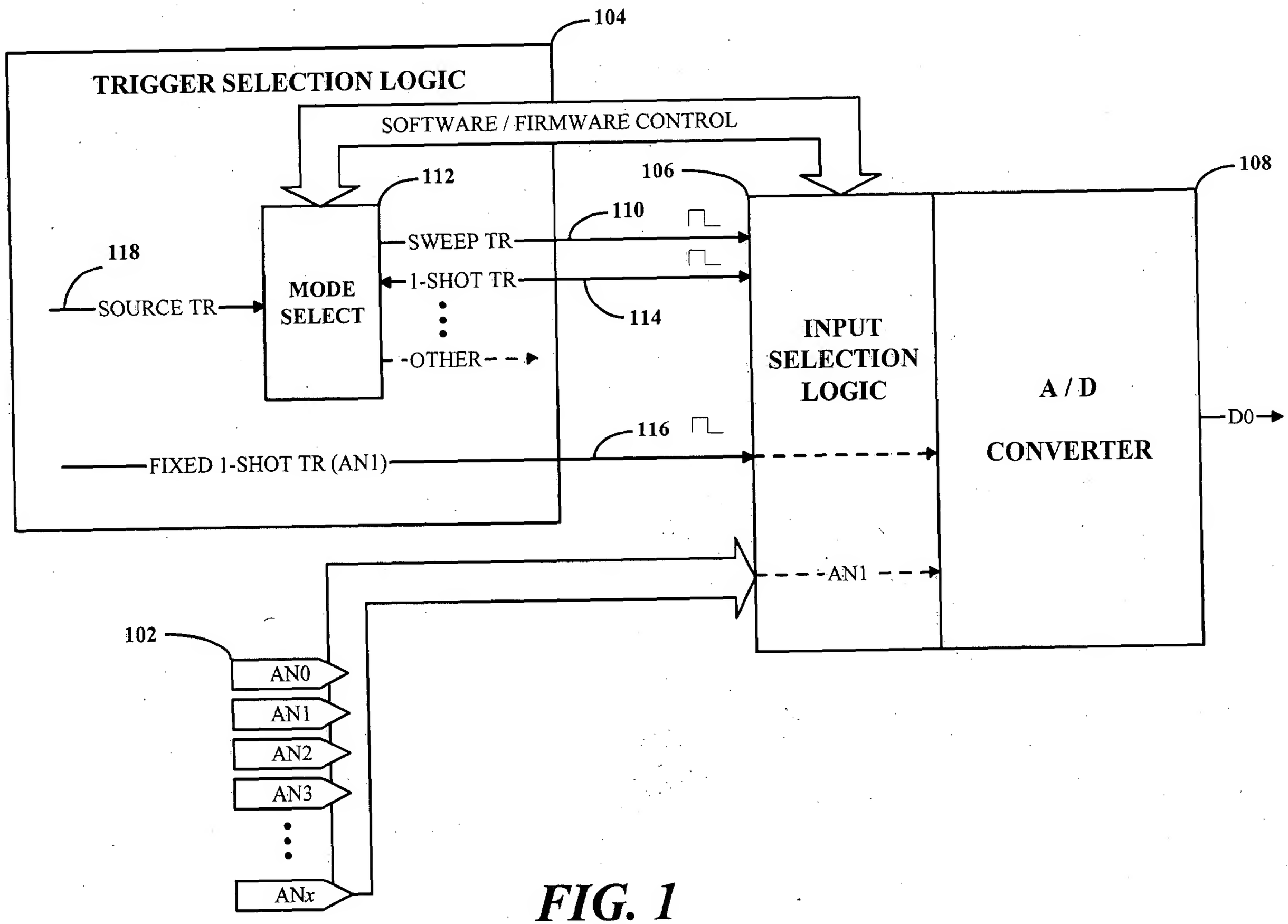

FIG. 1

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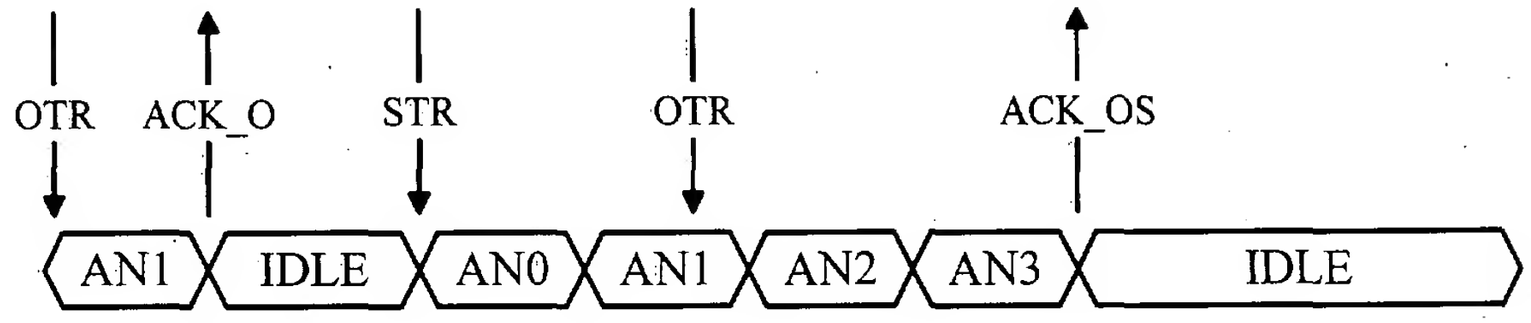
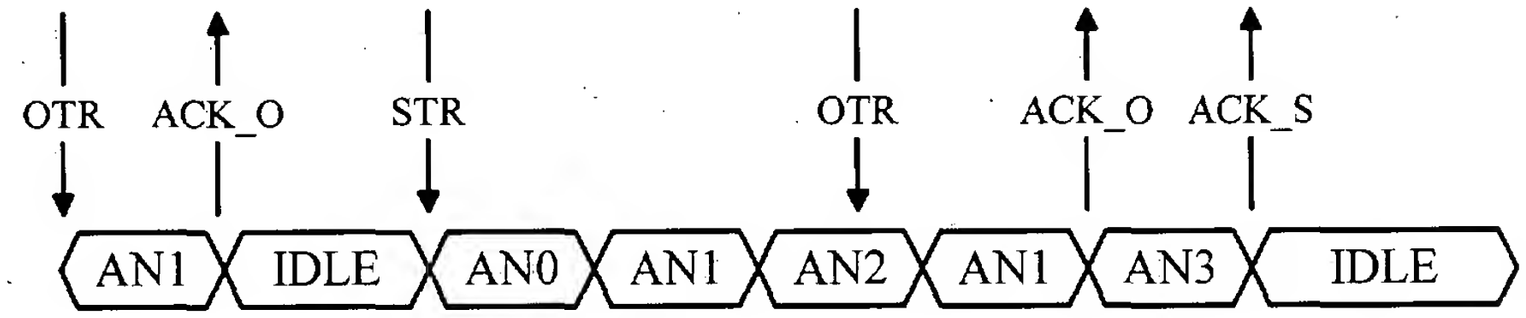
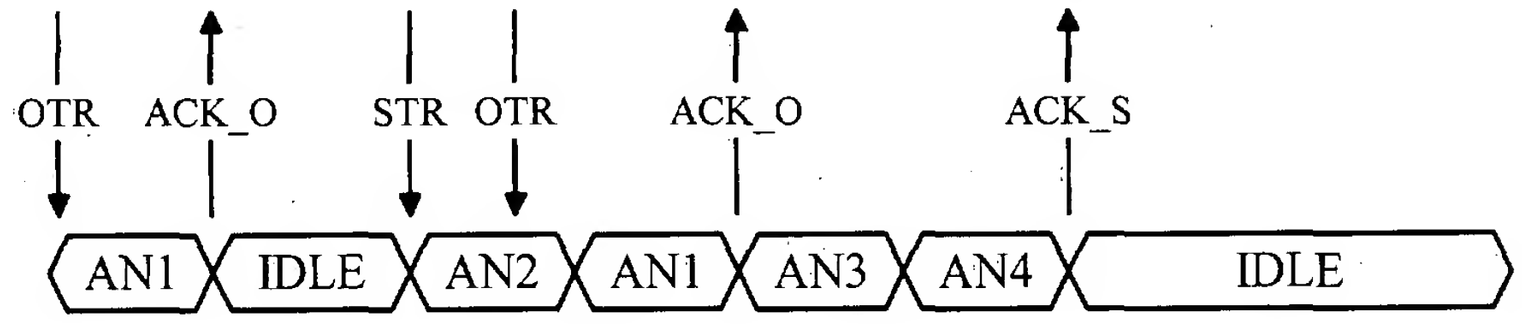
1) SWEEP AN0-AN3; ONE-SHOT AN1; NO PRIORITY OR SWEEP HAS PRIORITY



2) SWEEP AN0-AN3; ONE-SHOT AN1; ONE-SHOT HAS PRIORITY



3) SWEEP AN2-AN4; ONE-SHOT AN1; ONE-SHOT HAS PRIORITY



4) SWEEP AN2-AN4; ONE-SHOT AN1; SWEEP HAS PRIORITY

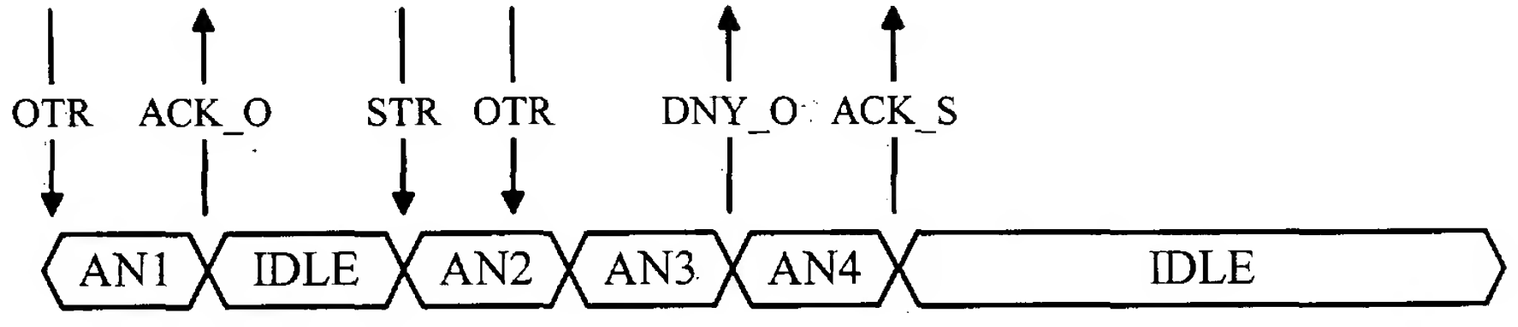


FIG. 2

OTR = ONE-SHOT TRIGGER
STR = SWEEP TRIGGER
DNY_O = DENY ONE-SHOT
ACK_O = ACKNOWLEDGE ONE-SHOT
ACK_S = ACKNOWLEDGE SWEEP
ACK_OS = ACKNOWLEDGE ONE-SHOT AND SWEEP

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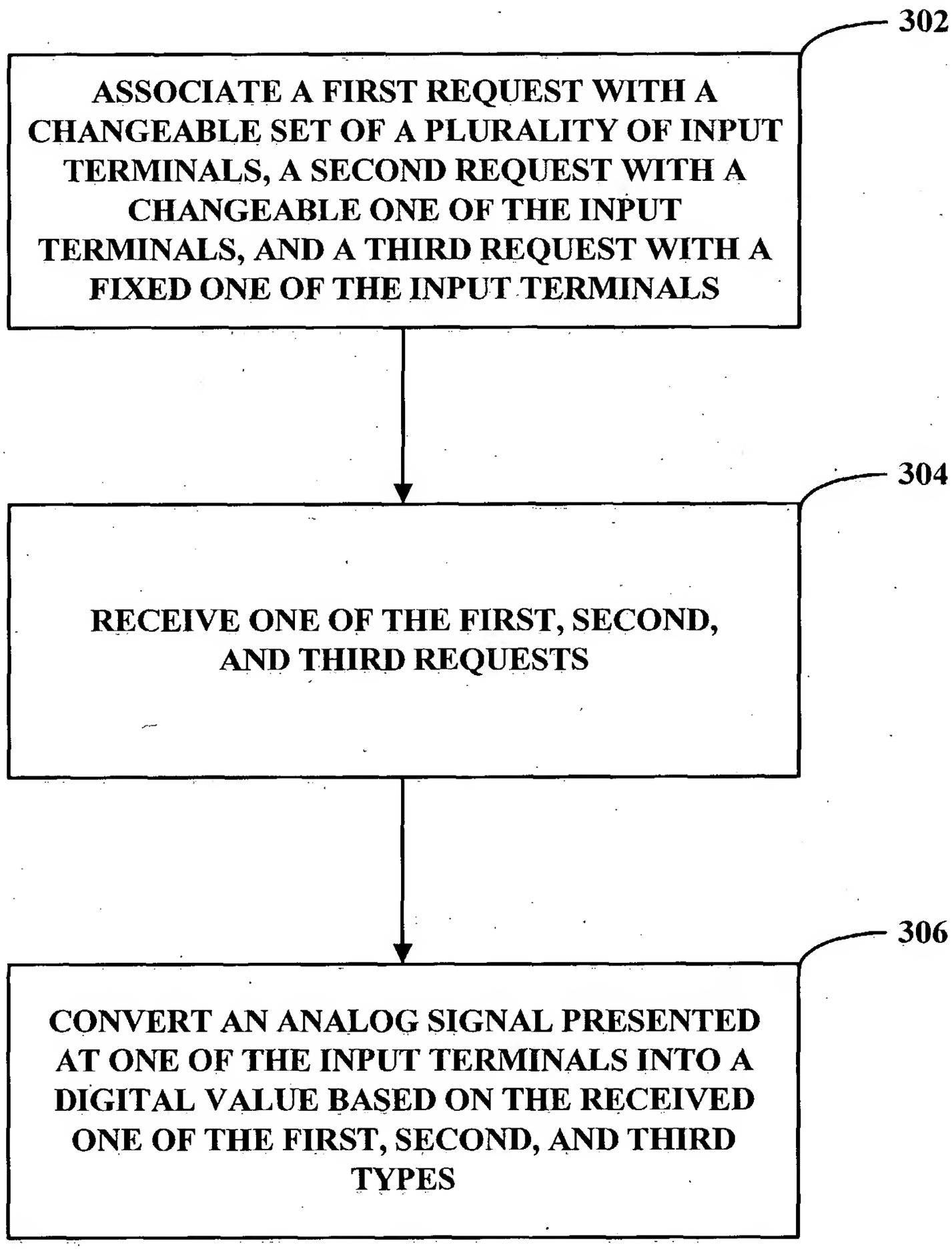

302
ASSOCIATE A FIRST REQUEST WITH A CHANGEABLE SET OF A PLURALITY OF INPUT TERMINALS, A SECOND REQUEST WITH A CHANGEABLE ONE OF THE INPUT TERMINALS, AND A THIRD REQUEST WITH A FIXED ONE OF THE INPUT TERMINALS
304
RECEIVE ONE OF THE FIRST, SECOND, AND THIRD REQUESTS
306
CONVERT AN ANALOG SIGNAL PRESENTED AT ONE OF THE INPUT TERMINALS INTO A DIGITAL VALUE BASED ON THE RECEIVED ONE OF THE FIRST, SECOND, AND THIRD TYPES

FIG. 3

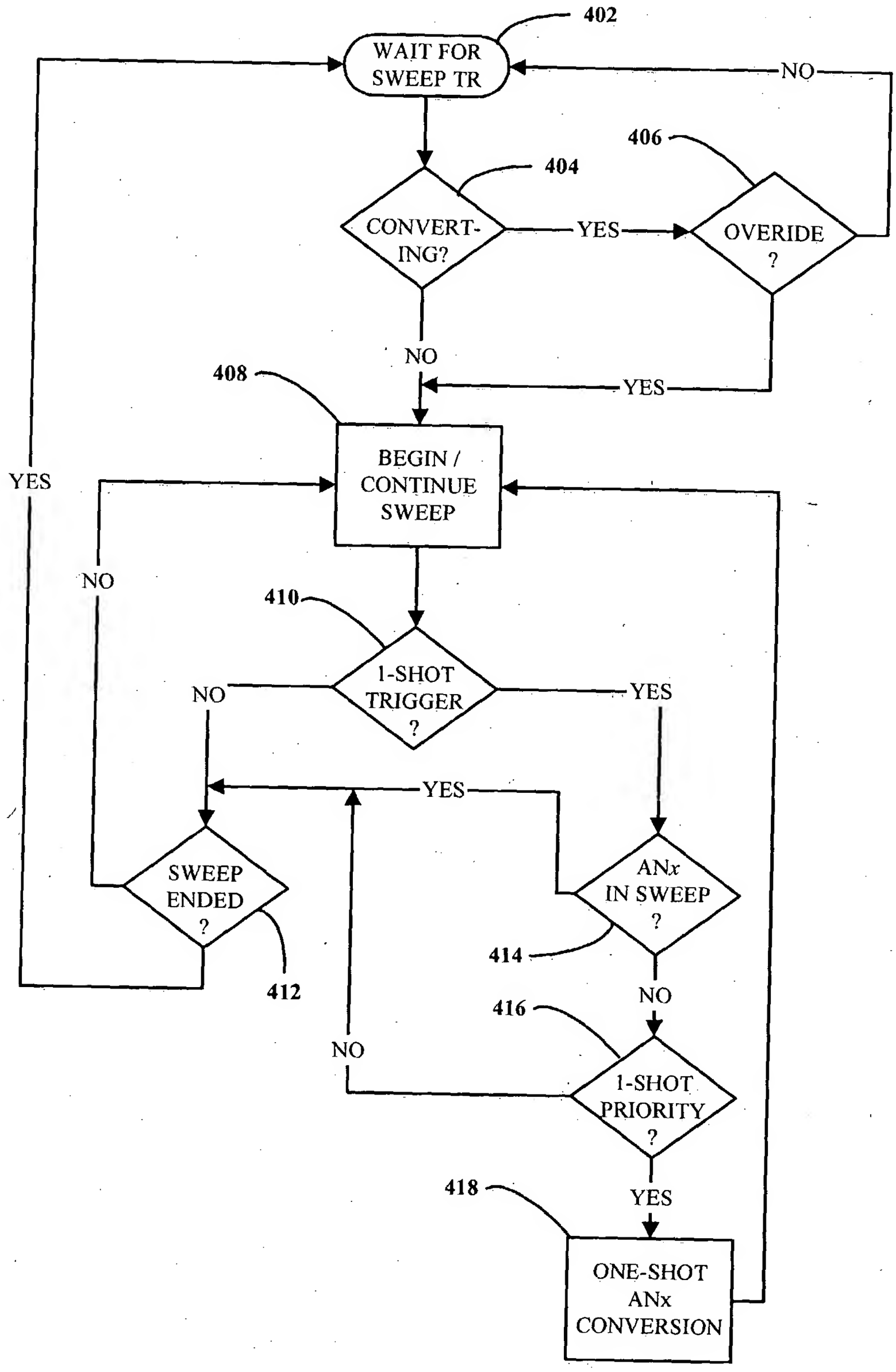
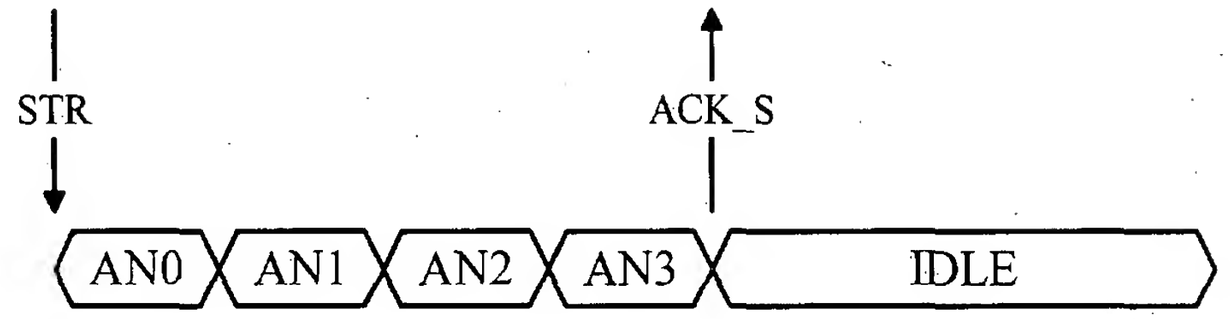
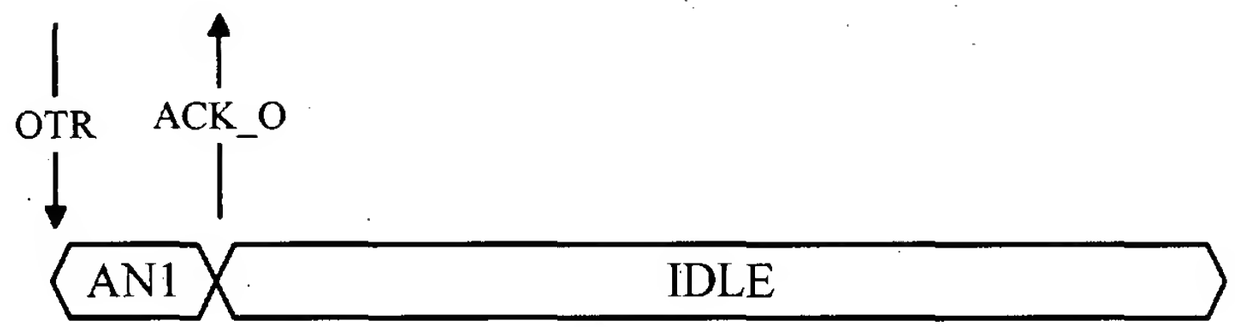

402
WAIT FOR SWEEP TR
NO
406
404
CONVERT-ING?
YES
OVERIDE ?
NO
408
YES
BEGIN / CONTINUE SWEEP
YES
NO
410
1-SHOT TRIGGER ?
NO
YES
YES
SWEEP ENDED ?
412
ANx IN SWEEP ?
414
NO
416
NO
1-SHOT PRIORITY ?
418
YES
ONE-SHOT ANx CONVERSION

FIG. 4

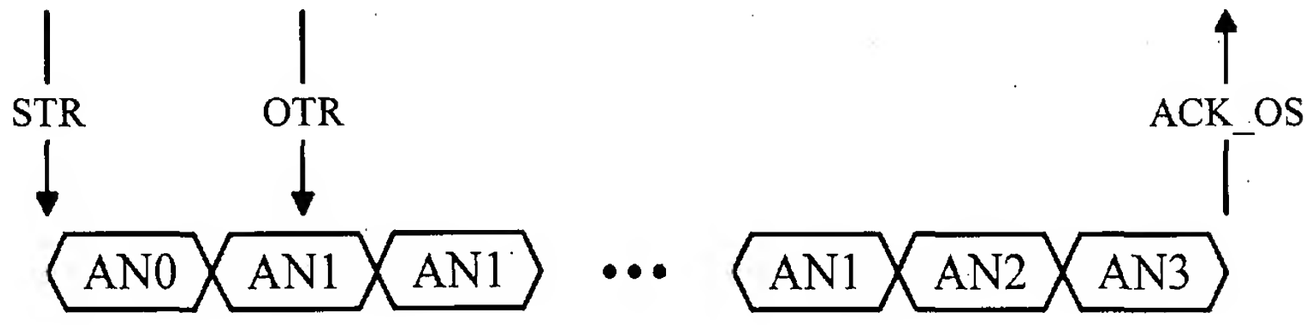
MODE 1) SWEEP AN0-AN3



MODE 2) ONE-SHOT AN1



MODE 3) SWEEP AN0-AN3; REPEATED CONVERSION OF AN1



OTR = ONE-SHOT TRIGGER
STR = SWEEP TRIGGER
ACK_S = ACKNOWLEDGE SWEEP (MODE 1)
ACK_O = ACKNOWLEDGE ONE-SHOT (MODE 2)
ACK_OS = ACKNOWLEDGE ONE-SHOT AND SWEEP (MODE 3)

FIG. 5

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